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(54) Title: PROCESS

(57) Abstract: A process for the preparation of an olefin homopolymer or copolymer comprising polymerising at least one C<sub>2-20</sub>-α-olefin in slurry phase in the presence of 1) a metallocene compound of formula I: (Cp)(Cp'')R<sub>n</sub>MX<sub>2</sub> (I) wherein: Cp is an optionally substituted and/or optionally fused homo- or heterocyclopentadienyl ligand; Cp'' is a cyclopentadienyl substituted by at least one C<sub>1-20</sub>-alkyl group; R is a bridge of 1-7 bridging atoms; M is a group 4 to 6 transition metal; each X is -CH<sub>2</sub>-Y, wherein Y is C<sub>6-20</sub>-aryl, C<sub>6-20</sub> heteroaryl, C<sub>1-20</sub>-alkoxy, C<sub>6-20</sub>-aryloxy, -NR'<sub>2</sub>, -SR', -PR'<sub>3</sub>, -SiR'<sub>3</sub>, -OSiR'<sub>3</sub> or halogen; R' is C<sub>1-20</sub>-hydrocarbyl or in case of -NR'<sub>2</sub>, the two substituents R' can form a ring together with the nitrogen atom wherein they are attached to; and each non-cyclopentadienyl ring moiety can further be substituted; n is 0 or 1; and (II) an aluminoxane.

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